IN THE CLAIMS

1. (previously presented) A method for scanning an object to reduce image degradation, said method comprising:

scanning the object in a helical mode using a multi-slice CT imaging system having a plurality of detector arrays arranged along a z-axis direction and a radiation source having a beam focal spot;

controlling a wobble of the focal spot of the radiation source in the z-axis direction during said scanning to selectively preferentially illuminate individual said detector arrays through the scanned object for each view;

collecting data from each said detector array for each view only when the detector array from which data is being collected is selectively illuminated.

- 2. (previously presented) A method in accordance with Claim 1 wherein said controlling a wobble of the focal spot of the radiation source comprises moving a pre-object collimator.
- 3. (previously presented) A method in accordance with Claim 2 wherein the radiation source is an x-ray tube, and said controlling a wobble of the focal spot of the radiation source wobbling comprises dynamically controlling the x-ray tube focal spot.
- 4. (currently amended) A method in accordance with Claim 3 wherein dynamically controlling the x-ray tube focal spot comprises steering an electron beam to illuminate two focal spots on a cathode focal spots of a cathode of the x-ray tube.
- 5. (Original) A method in accordance with Claim 3 wherein dynamically controlling the x-ray tube focal spot comprises alternately strobing two cathodes in an x-ray tube to illuminate two different focal spots.
- 6. (previously presented) A method in accordance with Claim 1 wherein said controlling a wobble of the focal spot of the radiation source comprises dynamically controlling the radiation tube focal spot.

7. (Original) A method in accordance with Claim 1 wherein said object is a medical patient.

8. (Cancelled)

9. (previously presented) A method for scanning an object to reduce image degradation, said method comprising:

scanning the object in a helical mode using a multi-slice CT imaging system having a plurality of detector arrays arranged along a z-axis direction and a radiation source having a beam focal spot;

controlling a wobble of the focal spot of the radiation source in the z-axis direction during said scanning to selectively preferentially illuminate individual said detector arrays through the scanned object for each view;

pulsing the radiation source so that the radiation source is off when the focal spot is wobbled between positions in which individual said detector arrays are selectively preferentially illuminated; and

collecting data from each said detector array for each view only when the detector array from which data is being collected is selectively illuminated.

- 10. (previously presented) A method in accordance with Claim 9 wherein said controlling a wobble of the focal spot of the radiation source comprises moving a pre-object collimator.
- 11. (previously presented) A method in accordance with Claim 10 wherein the radiation source is an x-ray tube, and said controlling a wobble of the focal spot of the radiation source comprises dynamically controlling the x-ray tube focal spot.
- 12. (previously presented) A method in accordance with Claim 9 wherein said controlling a wobble of the focal spot of the radiation source comprises dynamically controlling the radiation tube focal spot.
 - 13. (previously presented) A CT imaging apparatus comprising:

a radiation source on a rotating gantry having a beam focal spot; and

a plurality of detector arrays arranged along a z-axis and configured to detect radiation from said radiation source passing through an object to be imaged;

said CT imaging apparatus configured to:

scan an object in a helical mode;

control a wobble of the focal spot of the radiation source in the z-axis direction during said scanning to selectively preferentially illuminate individual said detector arrays through the scanned object for each view; and

collect data from each said detector array for each view only when the detector array from which data is being collected is selectively illuminated.

- 14. (previously presented) An apparatus in accordance with Claim 13 further comprising a moveable pre-object collimator, and to control a wobble of the focal spot of the radiation source, said apparatus is configured to move said pre-object collimator.
- 15. (previously presented) An apparatus in accordance with Claim 14 wherein said radiation source is an x-ray tube, and to control a wobble of the focal spot of the radiation source, said apparatus is further configured to dynamically control the x-ray tube focal spot.
- 16. (currently amended) An apparatus in accordance with Claim 15 wherein to dynamically control the x-ray tube focal spot, said apparatus is configured to steer an electron beam of the x-ray tube to illuminate two different focal spots on a single cathode focal spots of a single cathode.
- 17. (currently amended) An apparatus in accordance with Claim 15 wherein said x-ray tube comprises two cathodes, and to dynamically control the x-ray tube focal spot, said apparatus is configured to alternately strobe focal spots on the two different cathodes focal spots of the two different cathodes.

- 18. (previously presented) An apparatus in accordance with Claim 13 wherein to control a wobble of the focal spot of the radiation source, said apparatus is further configured to dynamically control the radiation source focal spot.
- 19. (Original) An apparatus in accordance with Claim 13 further comprising a movable table configured to support a patient between said radiation source and said detector arrays.
 - 20. (cancelled)
 - 21. (previously presented) A CT imaging apparatus comprising:

a radiation source on a rotating gantry having a beam focal spot; and

a plurality of detector arrays arranged along a z-axis and configured to detect radiation from said radiation source passing through an object to be imaged;

said CT imaging apparatus configured to:

scan an object in a helical mode;

control a wobble of the focal spot of the radiation source in the z-axis direction during said scanning to selectively preferentially illuminate individual said detector arrays through the scanned object for each view;

pulse the radiation source so that the radiation source is off when the focal spot is wobbled between positions in which each of said detector arrays is selectively preferentially illuminated; and

collect data from each said detector array for each view only when the detector array from which data is being collected is selectively illuminated.

- 22. (previously presented) An apparatus in accordance with Claim 21 further comprising a moveable pre-object collimator, and to control a wobble of the focal spot of the radiation source, said apparatus is configured to move said pre-object collimator.
- 23. (previously presented) An apparatus in accordance with Claim 22 wherein said radiation source is an x-ray tube, and to control a wobble of the focal spot of the

radiation source, said apparatus is further configured to dynamically control the x-ray tube focal spot.

24. (previously presented) An apparatus in accordance with Claim 21 wherein to control a wobble of the focal spot of the radiation source, said apparatus is further configured to dynamically control the radiation source focal spot.